



**NSAI**  
Standards

Irish Standard  
I.S. EN 140401-  
804:2011&AC:2012&A1:2013&A2:2019

Detail Specification: Fixed low power film  
high stability SMD resistors - Rectangular  
- Stability classes 0,1; 0,25

**I.S. EN 140401-804:2011&AC:2012&A1:2013&A2:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 140401-804:2011/A1:2013  
EN 140401-804:2011/A2:2019

EN 140401-804:2011/AC:2012

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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*This document is based on:*

EN 140401-804:2011

*Published:*

2016-11-08

*This document was published under the authority of the NSAI and comes into effect on:*

2019-05-28

ICS number:

31.040.10

NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN 140401-804:2011&AC:2012&A1:2013&A2:2019 is the adopted Irish version of the European Document EN 140401-804:2011, Detail Specification: Fixed low power film high stability SMD resistors - Rectangular - Stability classes 0,1; 0,25

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EUROPEAN STANDARD

**EN 140401-804:2011/A2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 31.040.10

English Version

## Detail Specification: Fixed low power film high stability SMD resistors - Rectangular - Stability classes 0,1; 0,25

Spécification particulière: Résistances fixes à couche de haute stabilité et à faible dissipation CMS - Rectangulaires - Catégories de stabilité 0,1; 0,25

Bauartspezifikation: SMD Schicht-Festwiderstände niedriger Belastbarkeit mit hoher Stabilität - Rechteckig - Stabilitätsklassen 0,1; 0,25

This amendment A2 modifies the European Standard EN 140401-804:2011; it was approved by CENELEC on 2019-03-25. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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**EN 140401-804:2011/A2:2019 (E)**

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## **European foreword**

This document (EN 140401-804:2011/A2:2019) has been prepared by CLC/TC 40XB "Resistors".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-03-25
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-03-25

This amendment facilitates the following changes of the standard:

Clarification of a conflict between the dimensions prescribed in the document and real products. Therefore proposes to modify the dimensional provisions of Table 1 by means of a new amendment.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

**EN 140401-804:2011/A2:2019 (E)**

**1 Modification to Table 1**

In Table 1, modify the yellow marked numbers as follows.

Style		Length <i>L</i> mm		Width <i>W</i> mm		Height <i>H</i> mm		Termination <i>T</i> mm		Mass mg
		min.	max.	min.	max.	min.	max.	min.	max.	max.
metric	inch									
RR1005M	RR0402	0,95	1,05	0,45	0,55	0,35	0,50	0,05 / 0,1	0,35	0,8
RR1608M	RR0603	1,50	1,70	0,70	0,90	0,35	0,55	0,10	0,50	2,1
RR2012M	RR0805	1,80	2,10	1,10	1,40	0,35	0,60	0,15	0,60	6,0
RR3216M	RR1206	3,00	3,40	1,45	1,75	0,35	0,65	0,25	0,75	10,0
RR5025M	RR2010	4,80	5,20	2,30	2,70	0,35	0,75	0,35	0,85	30,0



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 140401-804**

June 2011

ICS 31.040.10

Supersedes EN 140401-804:2005

English version

**Detail Specification: Fixed low power film high stability SMD resistors -  
Rectangular -  
Stability classes 0,1; 0,25**

Spécification particulière: Résistances  
fixes à couche de haute stabilité et à  
faible dissipation CMS -  
Rectangulaires -  
Catégories de stabilité 0,1; 0,25

Bauartspezifikation: SMD Schicht-  
Festwiderstände niedriger Belastbarkeit  
mit hoher Stabilität -  
Rechteckig -  
Stabilitätsklassen 0,1; 0,25

This European Standard was approved by CENELEC on 2011-05-09. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

This European Standard was prepared by Technical Committee CENELEC TC 40XB, Resistors.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 140401-804 on 2011-05-09.

This document supersedes EN 140401-804:2005.

Preceding documents on the subject covered by this specification have been:

- only on resistors without established reliability, now version A:
  - CECC 40 401-010:1995-02;
  - CECC 40 401-010:1997-10.

EN 140401-804:2011 the following significant technical changes with respect to EN 140401-804:2005:

- modification of the title;
- introduction of a test on the resistance to electrostatic discharge in 1.6 and Annex A;
- introduction of description and test methods for lead-free soldering in 1.8, 1.10.3 and Annex A;
- introduction of the code letters for temperature coefficient as given in EN 60062;
- revision of the ordering information in 1.9.4;
- revised information on pulse load capability in 1.10.6;
- revised information on resistance value drift in 1.10.7;
- revised information on current noise in 1.10.9;
- adoption of the IECQ rules of procedure, IEC QC 001002-3;
- revision of the sample quantities and the sequence of tests in Annex A.

Additionally, EN 140401-804:2011 is also an editorial revision of EN 140401-804:2005.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-05-09
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2014-05-09

This specification is part of four documents describing fixed resistors for surface mount technology as follows:

EN 60115-1	Fixed resistors for use in electronic equipment – Part 1: Generic specification (IEC 60115-1, mod.)
EN 140400	Sectional Specification: Fixed low power surface mount (SMD) resistors
EN 140401	Blank Detail Specification: Fixed low power film surface mount (SMD) resistors
EN 140401-804	Detail Specification: Fixed low power film high stability surface mount (SMD) resistors – Rectangular – Stability classes 0,1; 0,25

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EUROPEAN STANDARD

**EN 140401-804/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2013

ICS 31.040.10

English version

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Rectangular -  
Stability classes 0,1; 0,25**

Spécification particulière: Résistances  
fixes à couche de haute stabilité et à  
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Rectangulaires -  
Catégories de stabilité 0,1; 0,25

Bauartspezifikation: SMD Schicht-  
Festwiderstände niedriger Belastbarkeit  
mit hoher Stabilität -  
Rechteckig -  
Stabilitätsklassen 0,1; 0,25

This amendment A1 modifies the European Standard EN 140401-804:2011; it was approved by CENELEC on 2013-10-14. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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## Foreword

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The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-10-14
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